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FAX	Number of Pages	2	Date of	5/23/2002
	(including Cover Sheet)		Transmittal	

To	Company	Phone	Fax
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From Gary C. Honeycutt (214) 939-8651

Client/Matter Number 50000.2125 (TI-30589)

Comments

Please find attached the Appendix for Serial No. 09/817,696.

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Table

Thickness (micrometers) of barrier metal layer required to reduce updiffusion of underlying metal by more than 80%

Time (minutes)	250 (degrees C)	160 (degrees C)
Copper in Platinum		
3	4.68E-07	1.79E-09
60	2.09E-06	8.01E-09
1440	1.03E-05	3.93E-08
4320	1.78E-05	6.80E-08
Copper in Nickel		
3	5.39E-07	2.16E-09
60	2.41E-06	9.66E-09
1440	1.18E-05	4.73E-08
4320	2.04E-05	8.19E-08
Copper in Palladium		
3	1.30E-01	9.00E-02
60	5.60E-01	4.10E-01
1440	2.75E+00	2.00E+00
4320	4.76E+00	3.46E+00
Nickel in Gold		
3	9.10E-01	1.10E-01
60	4.08E+00	5.10E-01
1440	1.99E+01	2.51E+00
4320	3.45E+01	4.35E+00
Nickel in Palladium		
3	2.70E-02	8.00E-03
60	1.22E-01	3.80E-02
1440	5.98E-01	1.85E-01
4320	1.04E+00	3.20E-01

APPENDIX.